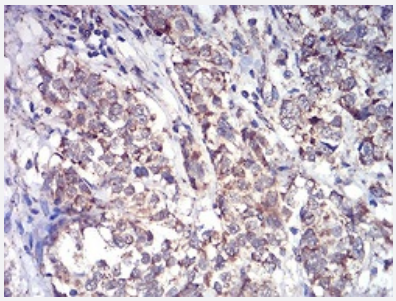
# ALDH6A1 monoclonal antibody, clone 6H9B7

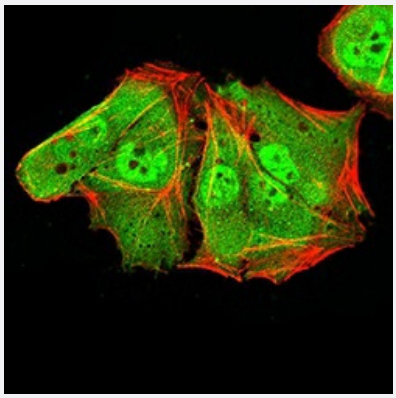
Catalog # MAB17197 Size 100 ug

## Applications



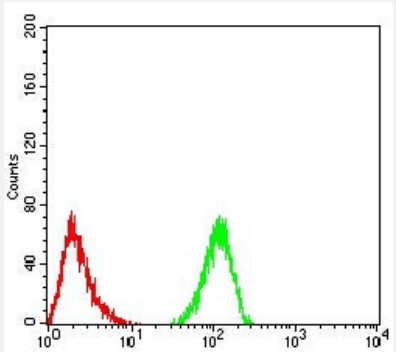
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded bladder cancer tissues with ALDH6A1 monoclonal antibody.



### Immunocytochemistry

Immunocytochemical staining of HeLa cells with ALDH6A1 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor- 555 phalloidin (red).




### Flow Cytometry

Flow cytometric analysis of HeLa cells with ALDH6A1 monoclonal antibody (green) and negative control (red).

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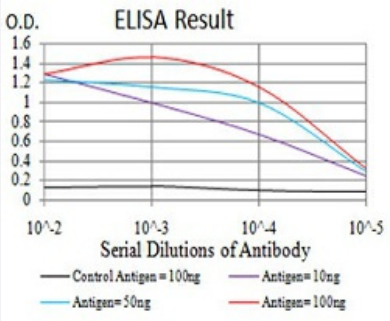
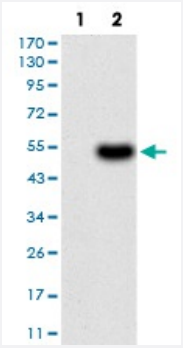



## Enzyme-linked Immunoabsorbent Assay

ELISA analysis of ALDH6A1 monoclonal antibody, clone 6H9B7.




## Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) ALDH6A1-hIgGFc transfected HEK293 cell lysate.

## Specification

| | |
|---|---|
| **Product Description** | Mouse monoclonal antibody raised against recombinant human ALDH6A1. |
| **Immunogen** | Recombinant protein corresponding to amino acid 1-195 of human ALDH6A1 from *E. coli*. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 57.8kDa |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Isotype** | IgG1 |
| **Recommend Usage** | ELISA (1:10000)<br>Western Blot (1:500-1:2000)<br>Immunohistochemistry (1:200-1:1000)<br>Immunocytochemistry (1:200-1:1000)<br>Flow Cytometry (1:200-1:400)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.05% sodium azide). |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

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| | |
|---|---|
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of paraffin-embedded bladder cancer tissues with ALDH6A1 monoclonal antibody.

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- Enzyme-linked Immunoabsorbent Assay

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- Western Blot (Transfected lysate)

  Western Blot analysis of (1) HEK293 cells, (2) ALDH6A1-hIgGFc transfected HEK293 cell lysate.

## Gene Info — ALDH6A1

| | |
|---|---|
| **Entrez GeneID** | 4329 |
| **Gene Name** | ALDH6A1 |
| **Gene Alias** | MGC40271, MMSADHA, MMSDH |
| **Gene Description** | aldehyde dehydrogenase 6 family, member A1 |
| **Omim ID** | 603178 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This protein belongs to the aldehyde dehydrogenases family of proteins. This enzyme plays a role in the valine and pyrimidine catabolic pathways. The product of this gene, a mitochondrial methyl malonate semialdehyde dehydrogenase, catalyzes the irreversible oxidative decarboxylation of m alonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Methylmalonate semial dehyde dehydrogenase deficiency is characterized by elevated beta-alanine, 3-hydroxypropionic acid, and both isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids. [provided by RefSeq |

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|---|---|
| **Other Designations** | aldehyde dehydrogenase 6A1\|mitochondrial acylating methylmalonate-semialdehyde dehydrogenase |

## Pathway

- Inositol phosphate metabolism
- Metabolic pathways
- Propanoate metabolism
- Valine

## Disease

- Tobacco Use Disorder

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